

工.1 7-12-04

EPA Region 5 Records Ctr. 205292

July 12, 2004

Mr. Kevin Turner
On-Scene Coordinator
Emergency Response Branch
U.S. Environmental Protection Agency Region 5
c/o Crab Orchard National Wildlife Refuge
8588 Route 148
Marion, IL 62959

Subject: Letter Report

RRG/Clayton Chemical Removal Action Site

Sauget, St. Clair County, Illinois

Technical Direction Document No. S05-0307-011

Tetra Tech Contract No. 68-W-00-129

Dear Mr. Turner:

The Tetra Tech EM Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) is submitting the enclosed letter report on the RRG/Clayton Chemical removal action site in Sauget, St. Clair County, Illinois. If you have any questions or comments regarding the report or need additional copies, please contact me at (314) 892-6322, extension 25, or Thomas Kouris at (312) 946-6431.

Sincerely,

Thomas Binz

Tetra Tech START Project Manager

The A da

Enclosure

cc: Lorraine Kosik, U.S. EPA START Project Officer

Thomas Kouris, Tetra Tech START Program Manager

LETTER REPORT RRG/CLAYTON CHEMICAL REMOVAL ACTION SITE SAUGET, ST. CLAIR COUNTY, ILLINOIS

Prepared for

U.S. ENVIRONMENTAL PROTECTION AGENCY
Region 5 Emergency Response Branch
c/o Crab Orchard National Wildlife Refuge
8588 Route 148
Marion, IL 62959

TDD No.: S05-0307-011
Date Prepared: July 7, 2004
Contract No.: 68-W-00-129
Prepared by: Tetra Tech EM Inc.

START Project Manager: Thomas Binz

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CONTENTS

Secti	Section Pag		
1.0	INTRODUCTION	. 1	
2.0	SITE BACKGROUND	. 1	
3.0	REMOVAL ACTIVITIES	2	
	3.1 MOBILIZATION AND SITE SETUP 3.2 LIQUID WASTE INVENTORY AND PROFILING 3.3 LIQUID WASTE REMOVAL 3.4 AST DECONTAMINATION 3.5 DEMOBILIZATION	2 3 4	
4.0	WASTE DISPOSAL	5	
5.0	SUMMARY AND CONCLUSIONS	6	
<u>Арре</u> А	endix FIGURES Figure 1 - Site Location Map		
	Figure 2 - Site Layout Map		
В	PHOTOGRAPHIC LOG		
C	FIELD LOGBOOK NOTES		
D	MANIFEST TRACKING LOG		
	TABLE		
<u>Table</u>	<u>e</u>	<u>ige</u>	
1	WASTE DISPOSAL SUMMARY 5		

1.0 INTRODUCTION

The Tetra Tech EM Inc. Superfund Technical Assessment and Response Team (START) has prepared this letter report in accordance with the requirements of Technical Direction Document (TDD) No. S05-0307-011, which the U.S. Environmental Protection Agency (U.S. EPA) assigned to START. The scope of this TDD was to provide oversight at the RRG/Clayton Chemical removal action site in Sauget, St. Clair County, Illinois, during liquid waste removal. Specifically, START was tasked to conduct monitoring activities at the site and prepare this letter report.

Section 2.0 of this report provides background information on the site. Section 3.0 details the removal activities conducted by the removal contractor, and Section 4.0 summarizes waste disposal information. Section 5.0 summarizes the contents of this report and presents conclusions drawn from observations made during on-site monitoring activities. In addition, Appendix A contains a photographic log of site activities, Appendix B contains a copy of START's field logbook notes, and Appendix C contains a copy of the manifest tracking log.

2.0 SITE BACKGROUND

The RRG/Clayton Chemical site is located at 1 Mobile Avenue in Sauget, St. Clair County, Illinois. The site occupies 7 acres in a highly industrialized area (see Appendix A). Prior to 1961, the property was owned by GM&O Railroad, which operated a maintenance facility for railroad parts and equipment at the site. In 1961, Clayton Chemical Company (Clayton Chemical) leased the property to operate a waste oil and solvent recycling and recovery business there. In 1981, Clayton Chemical acquired the property from the Village of Sauget and continued recycling and recovery operations. In November 1996, Clayton Chemical ceased operations and was bought out by the Resource Recovery Group (RRG), which continued to operate the facility as a waste oil and solvent recycling and recovery business. After the Illinois Environmental Protection Agency (IEPA) denied RRG a Resource Conservation and Recovery Act (RCRA) Part B permit all site operations ceased. Since that time the site has been abandoned, with large amounts of hazardous liquid wastes left stored in aboveground storage tanks (AST), piping, drums, and other vessels.

3.0 REMOVAL ACTIVITIES

This section discusses the liquid waste removal activities conducted at the RRG/Clayton Chemical site from August 7, 2003, through May 17, 2004. The activities included (1) mobilization and site setup, (2) a liquid waste inventory and profiling, (3) liquid waste removal, (4) AST decontamination; and (5) demobilization.

3.1 MOBILIZATION AND SITE SETUP

On August 6, 2003, a preconstruction meeting and tour were conducted at the site by O'Brien & Gere Engineering, Inc. (OBG). Representatives of U.S. EPA; IEPA; START; and the removal contractor, Clean Harbors Environmental Services, Inc. (CHESI), were present for the meeting. During the meeting, the roles and responsibilities of all parties involved were discussed. OBG was to manage the removal, perform oversight on behalf of the potentially responsible party (PRP) for the site, and provide U.S. EPA with monthly progress reports and a final report within 60 days after completion of the project. CHESI was to perform most activities associated with the removal, including sampling, procurement of analytical services, and waste transport and disposal. START was to monitor site activities on behalf of U.S. EPA. No representatives of the RRG/Clayton Chemical Site Liquids Group were present at the meeting. This group includes the present site owner, Dennis Bollinger, as well as waste generators that submitted materials to the facility during its operation.

On August 7, 2003, CHESI mobilized to the site. A site office trailer was set up along with a decontamination trailer. A work zone, contamination reduction zone, and decontamination area were established, and the CHESI crew began to inventory and sample ASTs on site.

3.2 LIQUID WASTE INVENTORY AND PROFILING

The goal of the inventory and profiling phase of the removal action was to provide estimates of all liquid wastes still stored at the site and collect representative samples for disposal characterization purposes. For this removal, "liquid wastes" were defined as both nonhazardous wastes and containerized liquids transported as RCRA hazardous wastes.

The inventory and sampling of liquid wastes were performed by CHESI under the direction of OBG from August 7 through 22, 2003. The task involved all site vessels, including ASTs, drums, and other containers. The ASTs were inventoried and sampled for waste profiling purposes, and disposal

characterization samples were submitted to the CHESI laboratory in Chicago, Illinois. The inventory revealed 34 ASTs, ranging in estimated volume from 20 to more than 200,000 gallons, containing a total estimated waste volume of over 700,000 gallons. In addition, 31 empty ASTs were present on site.

The drums were inventoried and sampled from August 18 through 22, 2003. Drums containing liquids were differentiated from drums containing solids by painting color-coded markings on each drum. The inventory revealed that there were 109 55-gallon drums of liquid wastes and 118 drums of solid materials. During drum sampling, ambient air conditions were monitored using a photoionization detector (PID) to ensure that any releases and associated threats to on-site personnel would be detected. No elevated PID readings were recorded. Small containers were field-categorized and lab-packed by the CHESI chemist.

Inventory and sampling activities were completed on August 22, 2003. On-site personnel demobilized from the site at this time, until waste disposal arrangements could be made.

Waste profiling revealed six liquid waste streams at the site: (1) nonhazardous oil/water, (2) blended fuels, (3) flammables, (4) F-listed wastewater, (5) dilute/recovered perchloroethylene, and (6) crude oil.

3.3 LIQUID WASTE REMOVAL

The removal personnel remobilized to the site on September 2, 2003. Equipment was set up that day, and the CHESI crew began removing liquid wastes from ASTs on September 3, 2003. Liquid wastes in ASTs were removed by either directly loading the wastes into vacuum trucks or transferring the wastes into liquid transporters using pneumatic transfer pumps. The blended fuel waste stream with a British thermal unit (BTU) value of greater than 5,000 was transported to Energis LLC (Energis) in Clarksville, Missouri, for use as kiln fuel. Other liquid wastes, including the nonhazardous, flammable, and F-listed wastes, were transported to the CHESI facility in Chicago, Illinois. Drums were separated according to waste streams. When possible, the drums' contents were pumped out and removed from the site by bulk transport or vacuum truck. If bulk transport was not possible, drums were overpacked and transported off site in trucks.

Liquid waste removal was completed on January 14, 2004, except for the contents of AST G4. This AST was determined to contain crude oil waste that was profiled separately from the other materials. AST G4's contents were removed from April 12 through May 17, 2004. CHESI used a fuel oil-fired boiler to generate steam heat circulated in a closed-loop system to liquify the paste-like crude oil materials. This waste stream was transported to the Energis facility.

Issues encountered during removal of liquid wastes included the following:

- The contents of AST G6 were initially rejected for fuel blending because the material's BTU value was less than 5,000 due to its high water content. The contents were dewatered and were then accepted for fuel blending.
- Caustic was added to the contents of AST G3, which were categorized as sulfide oil/water, before they were transported to the CHESI facility in Chicago.
- The contents of AST G5 were not suitable for energy recovery because of their high sulfide content. Caustic was added to the contents before they were transported as F-listed wastewater to the CHESI facility in Chicago.
- As noted above, AST G4 contained high-viscosity crude oil that formed a thick crust within the tank. This material was originally designated for disposal as special waste at a local landfill, but was rejected because of its benzene concentration. The waste was ultimately transported to Energis for energy recovery. The steam heating necessary to remove this heavy waste material from AST G4 significantly extended the project schedule.
- The initial screening of three ASTs indicated potential polychlorinated biphenyl (PCB) contamination. However, follow-up sample analytical results for these ASTs' contents did not indicate the presence of PCBs.
- Sludge materials at the bottom of some of the ASTs that could not be pumped out were left in place and are to be addressed during the next phase of the removal.

3.4 AST DECONTAMINATION

AST decontamination was performed as liquid waste removal was completed. AST cleaning began as soon as enough ASTs were emptied to justify mobilization of a decontamination crew. A crew consisting of a confined-space entry supervisor and two field technicians performed AST decontamination. ASTs were washed using a pressure washer. Rinsate was collected in designated empty ASTs and was transported off site for disposal.

3.5 **DEMOBILIZATION**

The final site inspection and demobilization occurred on May 17, 2004. Representatives of the RRG/Clayton Chemical Site Liquids Group, START, IEPA, OBG, and CHESI were present. During the inspection, the requirements of the CHESI contract and the actual work accomplished were reviewed, and a list of tasks required to complete the project was developed. This list included proper closure of all ASTs and other vessels, general site cleanup, obtaining remaining manifests, and completing all data tables. Upon completion of the on-site tasks, the CHESI crew demobilized from the site. The manifests and final data tables were received by START on May 24, 2004.

4.0 WASTE DISPOSAL

A total of 492,007 gallons of liquid waste was transported from the site to the CHESI facility in Chicago, Illinois, and a total of 318,878 gallons of liquid waste was transported from the site to Energis in Clarksville, Missouri. A summary of the waste disposal information is provided in Table 1.

TABLE 1
WASTE DISPOSAL SUMMARY

Containers	Waste Stream	Volume (gallons)	Disposal Facility
G3, G7, #14, G8	Oil/water	302,670	CHESI
G2, G5, G6, B4, B2, G8, G9, G10, G11, #13, B1, #12, #11, B3, S3	Blended fuels	248,293	Energis
G5, #11	F-listed wastewater	89,764	CHESI
#37, #33, S1, #46, #52, #46	Dilute/recovered perchloroethylene	22,220	CHESI
S5, #53, S4, S2	Flammables	36,621	CHESI
G2, G9, #11, #12, S5, R1, #13	AST bottoms	33,890	CHESI
G4	Crude oil	70,585	Energis
124 Drums	Various	6,842	CHESI
Total AST Liquid Waste Volume		804,043	
Total AST and Drum Liquid Wast	e Volume	810,885	

Notes:

AST = Aboveground storage tank

CHESI = Clean Harbors Environmental Services, Inc. in Chicago, Illinois

Energis = Energis in Clarksville, Missouri

5.0 SUMMARY AND CONCLUSIONS

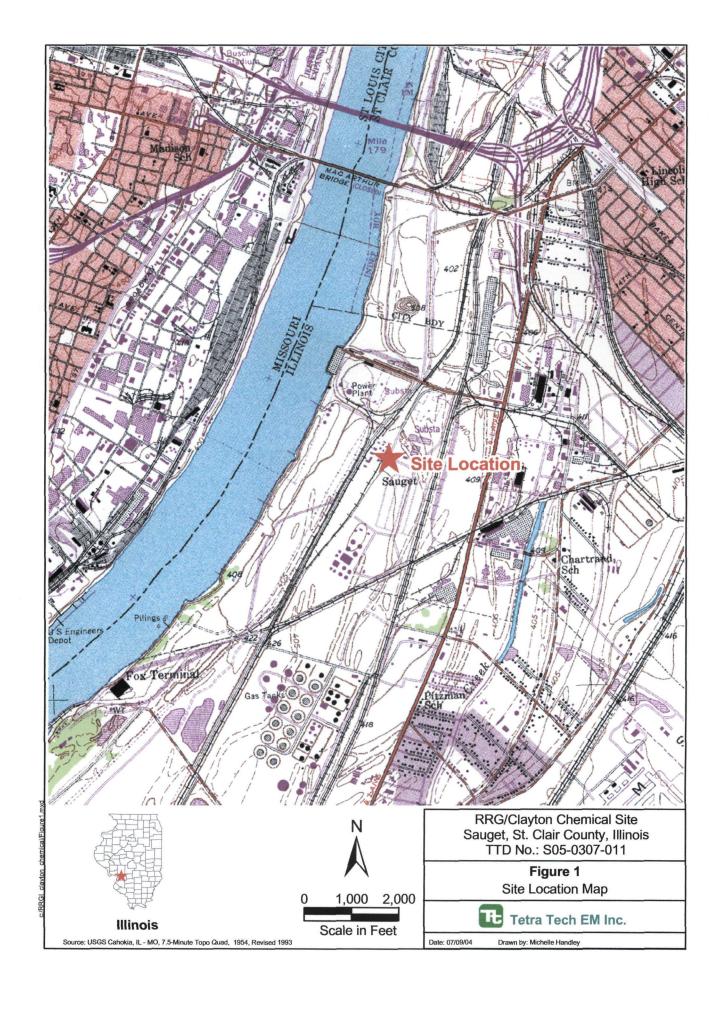
START was tasked by U.S. EPA to provide oversight of the PRP-lead removal of liquid wastes at the RRG/Clayton Chemical site in Sauget, Illinois. The removal activities included an inventory, sampling, profiling, removal, transport, and off-site disposal of all liquid wastes remaining on site. Following liquid waste removal, 34 ASTs were decommissioned by washing them, removing their piping, and welding all their openings closed. Solid waste materials remaining on site are to be addressed in the next phase of the removal project.

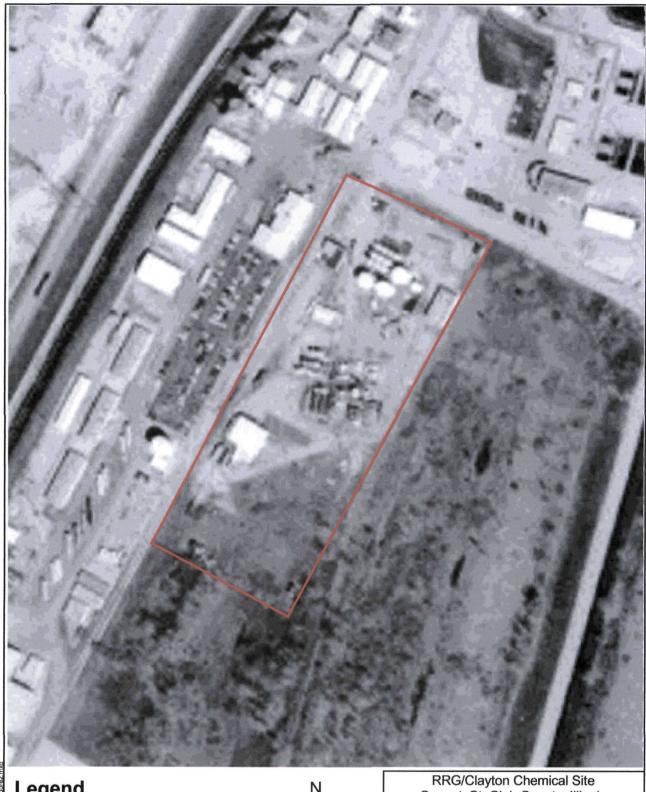
OBG was selected to manage the removal and to perform oversight on behalf of the PRP. The PRP contracted CHESI to perform most activities associated with the removal, including sampling, procurement of analytical services, transport, and disposal of liquid wastes. The removal action occurred from August 7, 2003, through May 17, 2004, with a break period from January 14, through April 12, 2004, to consider disposal options for viscous crude oil in one AST. A total of 810,885 gallons of liquid waste material was disposed of and transported off site to the appropriate disposal facilities. Work remaining at the site includes disposal of solid materials, such as solid sludge materials left at the bottom of some ASTs, and remediation of impacted soils. The time frame for the next phase of the removal has not yet been determined.

APPENDIX A FIGURES

FIGURE 1 - Site Location Map

FIGURE 2 - Site Layout Map

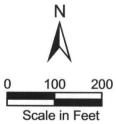








SITE BOUNDARY



RRG/Clayton Chemical Site Sauget, St. Clair County, Illinois TTD No.: S05-0307-011

Figure 2 Site Layout Map



Tetra Tech EM Inc.

Drawn by: Michelle Handley

Source: USGS Cahokia NE Digital Orthophoto Quad, 04/02/98

APPENDIX B PHOTOGRAPHIC LOG

(Nine Pages)



Photograph No.: 1

TDD No.: S05-0307-011

Location: RRG/Clayton Chemical site

Subject: Site entrance/field office next to former Resource Recovery Group (RRG) office

Date:

Orientation: Southeast

August 18, 2003

Date:

August 18, 2003



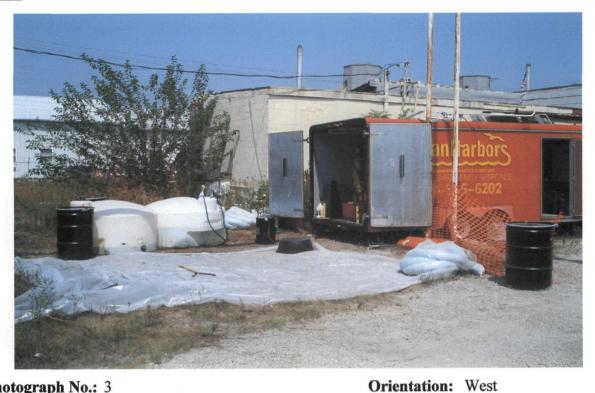
Photograph No.: 2

TDD No.: S05-0307-011

RRG/Clayton Chemical site Location:

Subject: Tank farm containing liquid wastes

A-1



Photograph No.: 3

TDD No.:

S05-0307-011

Location:

RRG/Clayton Chemical site

Subject:

Contamination reduction zone and decontamination area



Photograph No.: 4

TDD No.:

S05-0307-011

Location:

RRG/Clayton Chemical site

Subject:

Interior of drum storage building

Orientation: East

Date:

Date:

August 18, 2003

August 18, 2003



Photograph No.: 5

TDD No.:

S05-0307-011

Location:

RRG/Clayton Chemical site

Subject:

Drum storage area

Orientation: West

Orientation: Northwest

Date:

August 19, 2003

Date:

August 19, 2003



Photograph No.: 6

TDD No.:

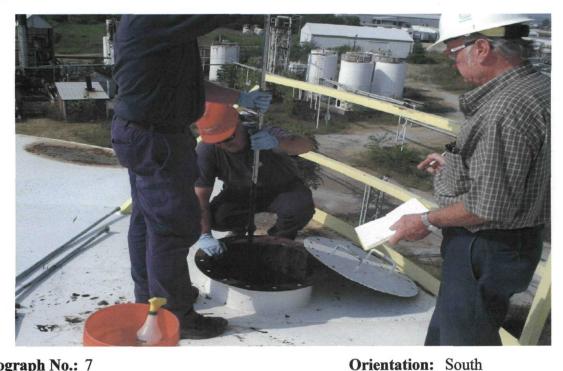
S05-0307-011

Location:

RRG/Clayton Chemical site

Subject:

Drum storage area during sampling activities



Photograph No.: 7

TDD No.:

S05-0307-011

Location:

RRG/Clayton Chemical site

Subject:

Gauging and sample collection at aboveground storage tank (AST) G4

Date:



Photograph No.: 8

TDD No.:

S05-0307-011

Location:

RRG/Clayton Chemical site

Subject:

Loading liquid waste into vacuum truck

A-4

Orientation: South

Date:

October 10, 2003

August 20, 2003



Photograph No.: 9

TDD No.:

S05-0307-011

Location:

RRG/Clayton Chemical site

Subject:

Manway door for AST G7

Orientation: South

Date:

October 31, 2003



Photograph No.: 10

TDD No.:

S05-0307-011

Location:

RRG/Clayton Chemical site

Subject:

Sludge remaining in AST G5

Orientation: South

Date:

October 31, 2003



Photograph No.: 11

TDD No.:

S05-0307-011

Location:

RRG/Clayton Chemical site

Subject:

AST G4 contents

Orientation: West

Orientation: Southwest

November 11, 2003

Date:

Date:

December 22, 2003



Photograph No.: 12

TDD No.:

S05-0307-011

Location:

Subject:

RRG/Clayton Chemical site

Empty ASTs on the southwest side of site



Photograph No.: 13 Orientation: South

TDD No.: S05-0307-011 **Date:** January 9, 2004

Location: RRG/Clayton Chemical site

Subject: Modest leak discovered during routine site inspection



Photograph No.: 14 Orientation: North

TDD No.: S05-0307-011 **Date:** January 19, 2004

Location: RRG/Clayton Chemical site

Subject: ASTs were dated with paint when liquid waste removal was completed



Photograph No.: 15

TDD No.:

S05-0307-011

Location:

RRG/Clayton Chemical site

Subject:

Empty drums were placed in drum storage building



Photograph No.: 16

TDD No.:

S05-0307-011

Location:

RRG/Clayton Chemical site

Subject:

Fuel oil-fired boiler (mobile system) to generate steam heat

A-8

Orientation: East

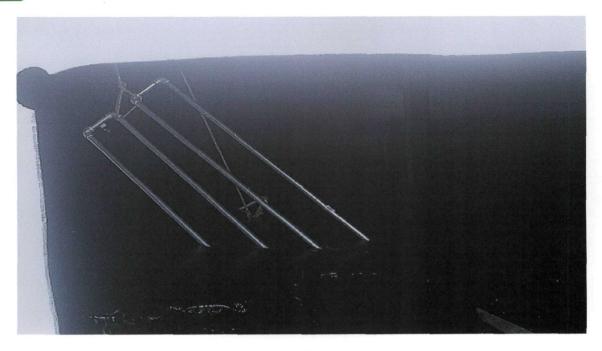
Orientation: West

January 19, 2004

Date:

Date:

April 6, 2004



Photograph No.: 17

TDD No.:

S05-0307-011

Location:

RRG/Clayton Chemical site

Subject:

Steam coils used to liquify crude oil in AST G4



Photograph No.: 18

TDD No.:

S05-0307-011

Location:

RRG/Clayton Chemical site

Subject:

Sealed entrance ports of AST G4

Orientation: North

Orientation: North

Date:

April 6, 2004

Date:

May 18, 2004

APPENDIX C FIELD LOGBOOK NOTES

(26 Pages)

Out loor writing products for outdoor writing people."



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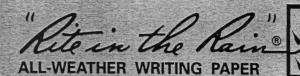
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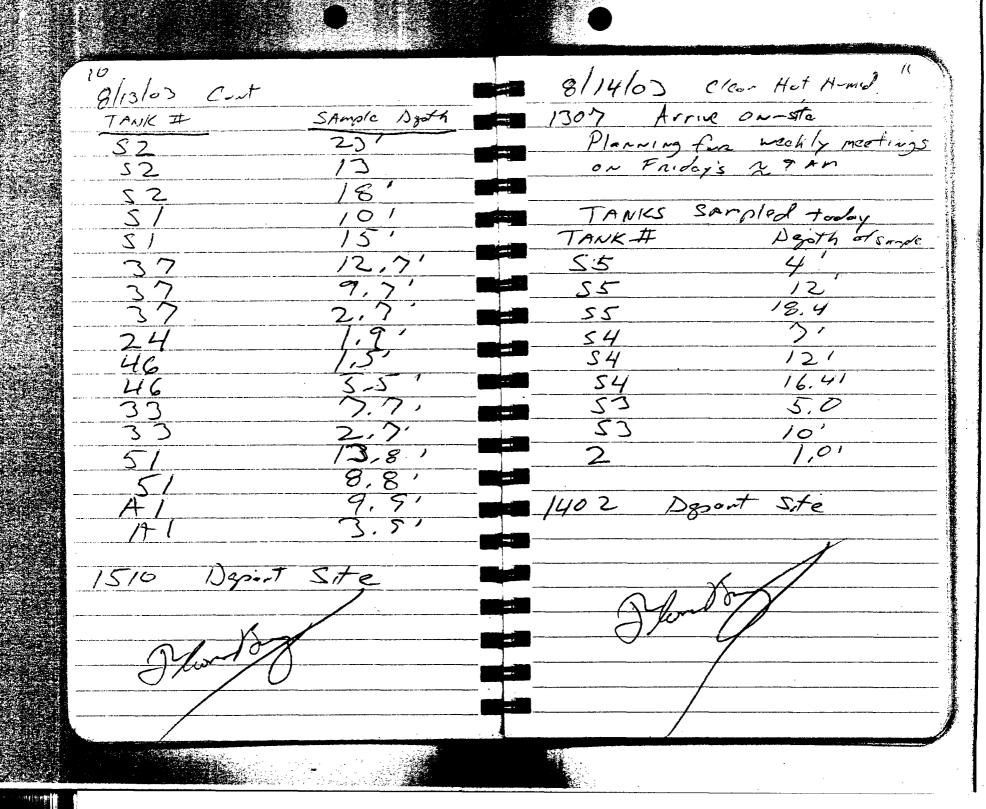
G9009 E-0307-011

8/6/03 PC 88°F 1251 Hrrive Site For Pre construction meeting hosted by Scott Cormier of OBrien Gere Intro + Mele of Attendes OBG PMC ENGAS PAR Gro-p Tech comm. NAPSCO MAGNA JANET HAINE MAllinkroft Jim Gront Tebia Phani Chryslen Steering Comm Meg KAUFTIN Sheldon Korlin - Atty, L Couglin Clear Harbors has disposal CONTrocT Roles + Communications · Access Agreement Mr. Ballinger owns Site

2/6/03 8/6/03 cont. 1537 SITE TOUR. 3) Liquids Removal, W.P. SAFETY CONCERUS with · HASP'S (2) · Stains & Raile · Site Security
· Air Montoning (2) Decen 1/20 surce + Fine Bring both together · Site Centingency Plans WATER SULFCE 1590.3 . New Generalor ID's Local No Tefecation 5 for PRP Group 2734 1549 Scott Cormier deports 4) hoteficolor of Schedule will not be back. This is the Notification Trak 1 51 fermenty 5) Meetings + Progress Routs had A scak. e on Gama 6) Contificate of substantial 1672 Deport Site Completion 7) Final Report Kest meeting on 8/7/03 a Dost removal Site Control n/ ThI personnol for shored resurres · Centified Final RPT GI OTher only Liquids Removal 1 clean + 1 RINSC + DISPOR

Tuesday 9/12/03 Wordy 7997 Hand Blille 3 R.C. 83°F Monday 145 Arme on-ste 1310 Arrive on-site Kevin Turner & Mike Great 1322 TANKS SAMPLED 02 8/8/0) Sample Interval were here to visit today TANKIL Whelily meetings are being 63-131 held every Friday at 9,00 am 63-23 1423 Brief rundown by 63-28 John Behrans & JACK Dail 62-3 No 155UES At this time 62-8 62-13 other than TANK 6-4 "Crude oil" with "head space 66-12' G6-121 of 21 Feet that has A crust " on the surface. 66-22 69-16 Clear Harbours may use a 69-16 condut pipe to pierce the (29-22 crust layer and sample 37-10 SAMPLES Collected on 8/11/07 67-24 TANK

8/13/03 Cloudy humid 84°F 9/12/03 Continued 1401 Array on-site G8 G8 WORKING ON Drums Tooling 24' 12' to identify if Liquid on Solid empty on partialor Full. -3/ C=11 Jack Daly asks me to inspect (210 The outside drum storage 6/8 area. OK if Temporory only 18,51 (210 due to "RCRA empty" resulting 610 materials that could leak or Accumulate rain water. 231 ONE DRUM ON drum folly 141 was leaking a clear fluid. and a small recent spill. Depart Site 1510 WAS observed. Tom Binz requested to place Adsorbent materials and cleanup small Spills. No reportable requirement at this Time,



8/15/0> C-2+. Det Hot girl 8/15/03 TANKS SAMPLEL ON 8/15/03 0855 Avrice on site 1,0' G-11 WEEKLY Meeting minites. -6-10 1) No Significent finding re: 6-16 Air Montoring Activities ----G-10 2) All TANKS SAmples 18,6 G-10 27,01 except TANK GY That has A hard surface layer. 13-4 19,0' 57,0' 3) Drums were verified Liquid 13-1 9.0' or solid. Completed 14.0 13-1 and color Codel 13-2 8.0 ' Instite drum Staging west 17,01 13-5 to Drum Storage Area. 13-4 13,0' 4) SAmples are delivered . ---13-4 1),0 weekly to CHArbors Chicago 1,6" D-3 Clara Harbors Chemist G-8 26.0 24.01 on-site to inventory For G-8 12,0' Fetere LAB Pack. G-8 10-2 30' 6) SAMPLE C-4 Acot week . after druns SITE Sampling for druns starts on 8/18/03 Do Las Prek next week of After

85°F 8/19/03 Clan Hat Humid 8/18/03 Cican Hot Homid 1009 Arrive on-site. 1310 Arrive onsite and tanks will not be Collecting Samples from Drums continues today Sampled. JACK Daly prosents a copy of "Draft" Tank inventory Drum 4 Sam/colon 8/15/0 Spread sheets #69 /1/ Drums Sampled on 8/18/03 世70 129+130 150 Glow

olislos cont 8/19/03 Pictories TXKON this day 1410 Dysent site 1340 599 low, Drums, parts inside Bulling Clear Horbors Crews valending scattered drums plap in other arces of the site. Picture of Boxes contains custom Samples Picture of Drims in starsse Blb Picture of drams in Building W/ Same Jars on tops Picture of draws in Blds of sample Jons on top. Picture of chains ul sample ters on to Pictore of Serple Jers on Top

18 8/20/03 86°F Hoto Hemel 0654 Arme onsite For weekly Meeting Project will Temporory Strut down telay and will 12-mob on 9/2/03 to Allow time to complete Sampling andysis, All drums have been sampled 221 drung total, LAS park is happening at this Clear Harbors will stick The G-4 Trick July Picture of Clan Horbers PRObing the Trak 6-4 Hard Surface layer Looks Like high Paratin crude oil

טער 9/3/03 cloudy 68°F 0805 Arrive onsite Two Bulk liqued Traken Trucks are lumbel and prepared for Shipment. 0825 Too Trucks deport site w/ vilo water tran trak 6-3 Plans are to Ship & Truckluses pendy the week and ramp upto 4 T/L/works for the TB rest week. NON-REGULATED NON-14AZ NON DUT Regulated OIL/WATER MANIFEST I IL 1070365 5012 GATIONS IL 10705366 5116 Gallons 0842 Tour Site w/ Mile Grant To inspect TALK 5-2 which was leaking prevously. A blind BAJS Flange uns installed to eliminate the

9/10/03 74°F Clar 9/9/03 69°F Clar 0817 Arme on site 1150 Avrice or site Shipping 2 loads of NON- HAZ- OIL a HATER Has problems have re-appeared. & Trucks 10 CHSI In change were Concolal, 1 Truck was Juday. rejected and returned to The site No resolution u/ Has pricing Surcharges and changes Obrien Gere / PAP Group n/ Italogen's IN oils. vill conference w/ Clean Hambours today. 2902 Digset Site, 1253 Dysout Site

9/12/03 9/11/03 867 Clar 1540 Arrive oursite 0830 Arrive on-site _ 0846 Weakly meeting No resolution at This Time TUDATE: on 1423 Treatment on SOK OIL O WATER Shapel and Halugens. 10 Traks washed. Technical Committe 15 · No resolution on H2S, Italians adviced and anaits Vonet at a conference Final approvalby all in and not reachable (TANET HAYNOW) The group. 17 No resultion comes soon, 9722 Deport Site of a few days to weeks 15 passible. 1644 Dapart Ste

28 9/25/03 9/19/03 0902 Avinourste for 1047 Arrive on-Site JACK Daily informs me That PRP weekly meeting , sover with not signing profiles · 86,615 gal removed to late or WASTE CODE Declarations not being " 10 m 49/ at HLS Hzo treat most acted on, Clean Harbours is meaning Shotting down ducto in Action by " 36,258 30/ This week PRP's. My response was to o Helcin was bought by Frage * Tapk 6-4 15 for high viscosity contact Kovin Turner and sec if Kovin should contact the PPP " 87 Anhs cleaned this week , 29 Tarks total clance Group, I told Jack Daily that todate I would Give him tell Lunch time , No PCB'S IN TANKS B-4-BZ to Contact Scott Cornier that I was to G-8 = \$ 50,000 g/a/s. Contact Kovin Turner 1210 Truck Daily called the cell phone · Goffing Scool Transporter to inform me that The PRP Grange approved has afferenced the Holicia name 0951 Meeting over Change to ENERGIS in Lansistano LAIL the site Glores were Pichel ypiste 1320 Return to Site, JACK got a phone call from Scott Corner saying it was on to "SIGN-OFF" on maste Partiles, I Take This to be the good faith action action necessary to munter down

9/26/03 RAIN 550F 9/25/03 I will cont not Koun Times to 0921 Arrive on-site for weekly meeting Intern him of Sech · TotAL amount, removed to oute 15/2 Left UM message for 122,296 5al on 21780 Kein and called his Bapon · First TIL to feel's schoolled for 1807 Keva didnot riting phone call, Dyport Office 9/29/56 a no Tracks cleaned this neek 30 cleared to date · Pobbié woods is approved as Transport Sub of non-HAZ 1 Energis is approved as portor Holain Fraility · Homable issue is not resulted 1050 DOON Site

32 10/3/103 1203 WORLY MOSTING 6-9 has 4,0 Fest 1233 of Sludge 933 douplete 6-10 has 22,5 feet of Studes. Buth him 1220 2 pictures OF B-3 Bottom to Floor and net manuay covered, G-3 15 Lyudensty 1223 I produce of 13-2 Studge layer is tacky Mike Great is in attendance 1224) protone of 13-4 and agrees to several TANKS w/ oil tout solids do certain Solids That Are not part of Lits Now-pumpable Ramual. 1230 1 Pichn. of G-5 Solids are " 2.0' deep Solids are Just below MANNAY. Penet Detta constr like compostion.

11/11/03 Cloudy 64°F 11/10/03 Monday 390 F close 0904 Avive un-site 0926 Frotise inspection of 0828 Arrive on-ste tacks emptial tookte. JACK Daily will be The Following Tracks and departing the project this week Alicia Hirschbieher confirmed empty. from OB ~ 6 St. Louis office. 5-3, 5-6, 5-7, 5-8, 5-9, Will train for on-site rap. responsibillis, T-1, T-2, T-3, T-4 T-5, T-6, T-7, 0 T-8, 1-9, T-10, T-11, T-12 0902 Weakly meeting T-13, T-14, T-15, T-16 Project, s 98% completed T-18. n/ G-4 removed from The equation total tanks cleaned tookte 1344 Picture of LHS In is 39 would is 2 5000 Samples being decented dumalete. Into 55 gal Dram Expect bus results lake 1356 Picture etempty druns This week for G-4 (coders) outside it Storage Build Bollect WASTE Profile Sheets 1421 4 pidms of empty Tracks whom the south Side at site 1511 Depart Sité

36/2/5 03 Closely Rxia/5 Loct/sn 12/12/03 DONO Arme For neckly states Drums removed on 12/29/03 mettino Only 3 Trucklonds shipped Tanks Cleaned Off-site This week if Tank's wached This work 13,12 10 Traks regain to ckin Met. Next week upon tank G-5 Expecting 4 T/L next week been appared by QB.G. I LOAD of BULK liquide TANK G-4 proposal hos not been goverated, at This Time Expering 4 Truck loads next 0851 Deport site

12/22/03 3 Pictures of TANK 6-5 40/19/04 32°F Cloudy 0929 Arrive on-ste Picture of Tank #53 Final Site WAIK Jeaking Fluid. JOM BINZ TIEMT/FOR TANK 5-9 Floor of the Alicia Hensbucklen OBG Nave Maver dink has a deall spot west Mellinckath JIM Grant to that is discillere! Toby Viehney Okan Harbors TEPA LIKE Growt Chais Coursky TANK GH NO Scasum at this Time crispt that substantial completion is 16-e and An extensión 15 provided for 6-4 1009 1 picture of Meeting J,m Grant > PRP's L, 11, 50 ox for rebidson G-4 LHS will be dere Next meet Fire / Deinob of end of month

42,19/04 22'F Olcar 1256 Aprive omsite

Drijest van cogletion 1322 5 protones at Ste including:

2 pictures of amptydrum

Stored in brum storage Building.

\$1 picture of compty Tranks

2 pictures of Custody scal Uscolon monmays pyping

4/2404 BOUF Clar 1307 Arme onsite Rick Fellores indicates that 1304 Arrive on-site will Try to remove one land Boiler system is now opensus per day it possible, Tack level has dropped Plan to Let steen heat affect Agrandely 4-5 feet. The viscosty over time Steam heaters working.
I Pichae weste took 1506 Dgod Site 1410 Deport Site

He =/10/04 5/17/04 PC. B40F 09/2 Arrive onste Of Arrive onste for Binal Site WAIKOVER. 62094 gglors remod to for LHS Removal phose Satefain TANK 6-4. 5398 Gallons tuday Attendees 2 140" of Proport Alleia Hensbuchler > 086 remain at This time Druc Haradiak Rich Follores Clear Hankons 10m Binz TTEMI * NOT Present Mike Grant Fin For inspection Truly FAMI G-4 contents is removed, Took was classed Sufficiently as inspected. TANK Heles were sufficiely patched to mitigate rainted Accumulation. Manuay cour was belied and Scaled with Scarity Lock

485/17/04 1040 5 pictures of TANK 6-4 patch (Temporry) 1102 Inspection of Tank G-4 18 completed by tom Dirz Removal of Contents 18 sufficient. 1108 WAR The fencedine around site perenden 1910 Small Fence repair 1142 Deport Site

APPENDIX D
MANIFEST TRACKING LOG

(Six Pages)

Manifest No.	Returned	Document No.	Transporter	Gallons	Profile No.	Waste Type	AST No.	Transport Date	Disposal Facility
IL10705365	Х	00001	CHESI	5,012	CH173426B	Oil/water	G3	9/3/2003	CHESI - Chicago
IL10705366	X	00002	CHESI	5,116	CH173426B	Oil/water	G3	9/3/2003	CHESI - Chicago
IL10705367	Х	00003	CHESI	5,074	CH173426B	Oil/water	G3	9/4/2003	CHESI - Chicago
IL10705368	Х	00004	CHESI	5,431	CH173426B	Oil/water	G3	9/5/2003	CHESI - Chicago
IL10705370	Х	00005	CHESI	4,725	CH173426B	Oil/water	G7	9/8/2003	CHESI - Chicago
IL10705369	X	00006	CHESI	4,790	CH173426B	Oil/water	G7	9/8/2003	CHESI - Chicago
IL10705372	Х	00007	CHESI	4,890	CH173426B	Oil/water	G7	9/9/2003	CHESI - Chicago
IL10705373	Х	80000	CHESI	5,040	CH173426B	Oil/water	G7	9/9/2003	CHESI - Chicago
IL10705400	X	00009	CHESI	5,050	CH173426B	Oil/water	G7/#14	9/10/2003	CHESI - Chicago
IL10705394	Χ	00010	CHESI	5,229	CH173426B	Oil/water	#14	9/11/2003	CHESI - Chicago
IL10705396	Х	00011	CHESI	5,275	CH173426B	Oil/water	#14/G7	9/13/2003	CHESI - Chicago
IL10705395	Х	00012	CHESI	5,130	CH173426B	Oil/water	#14	9/15/2003	CHESI - Chicago
IL10705388	X	00013	CHESI	5,275	CH173426B	Oil/water	G8	9/15/2003	CHESI - Chicago
IL10705387	Х	00014	CHESI	5,160	CH173426B	Oil/water	G8	9/16/2003	CHESI - Chicago
IL10705393	X	00015	CHESI	5,303	CH173426B	Oil/water	G8	9/17/2003	CHESI - Chicago
IL10705381	Х	00016	CHESI	4,840	CH173426B	Oil/water	G3	9/18/2003	CHESI - Chicago
IL10705392	Х	00017	CHESI	5,275	CH173426B	Oil/water	G3	9/18/2003	CHESI - Chicago
IL10705386	Х	00018	CHESI	5,050	CH173426B	Oil/water	G3	9/22/2003	CHESI - Chicago
IL10705374	Х	00019	CHESI	4,872	CH173426B	Oil/water	G3	9/22/2003	CHESI - Chicago
IL10705375	X	00020	CHESI	5,181	CH173426B	Oil/water	G3	9/23/2003	CHESI - Chicago
IL10705397	X	00021	CHESI	5,115	CH173426B	Oil/water	G3	9/23/2003	CHESI - Chicago
IL10705391	X	00022	CHESI	5,150	CH173426B	Oil/water	G3	9/24/2003	CHESI - Chicago
IL10705390	X	00023	CHESI	5 <u>,</u> 050	CH173426B	Oil/water	G3	9/25/2003	CHESI - Chicago
IL10705376	X	00024	CHESI	5,263	CH173426B	Oil/water	G3	9/26/2003	CHESI - Chicago
IL10705435	X	00025	CHESI	5,060	CH173426B	Oil/water	G3	9/26/2003	CHESI - Chicago
IL10705451	Х	00030	CHESI	<u>5,</u> 010	CH173426B	Oil/water	G3	9/29/2003	CHESI - Chicago
IL10705401	Х	00031	CHESI	4,960	CH173426B	Oil/water	G3	9/30/2003	CHESI - Chicago
IL10705462	Х	00032	RDW	4 <u>,</u> 980	CH173426B	Oil/water	G3	9/30/2003	CHESI - Chicago
IL10705450	X	00027	RDW	5,102	CH173426B	Oil/water	G3	9/29/2003	CHESI - Chicago
IL10705436	Х	00028	CHESI	5 <u>,</u> 204	CH173426B	Oil/water	G3	9/29/2003	CHESI - Chicago
IL10705402	X	00035	CHESI	5,060	CH173426B	Oil/water	G3	9/30/2003	CHESI - Chicago
IL10705452	Х	00039	RDW	5,133	CH173426B	Oil/water	G3	10/1/2003	CHESI - Chicago
IL10705441	Х	00040	CHESI	4,980	CH173426B	Oil/water	G3	10/1/2003	CHESI - Chicago
IL10705440	Х	00043	CHESI	5,121	CH173426B	Oil/water	G3	10/1/2003	CHESI - Chicago
IL10705443	Х	00047	CHESI	5,113	CH173426B	Oil/water	G3	10/2/2003	CHESI - Chicago
IL10705463	Х	00048	RDW	5,102	CH173426B	Oil/water	G3	10/2/2003	CHESI - Chicago

Manifest No.	Returned	Document No.	Transporter	Gallons	Profile No.	Waste Type	AST No.	Transport Date	Disposal Facility
IL10705398	Х	00050	CHESI	5,121	CH173426B	Oil/water	G3	10/3/2003	CHESI - Chicago
IL10705457	Х	00053	RDW	4,535	CH173426B	Oil/water	G3	10/6/2003	CHESI - Chicago
IL10705456	Х	00055	RDW	5,024	CH173426B	Oil/water	G3	10/6/2003	CHESI - Chicago
IL10705444	Х	00056	CHESI	5,121	CH173426B	Oil/water	G3	10/6/2003	CHESI - Chicago
IL10705455	Х	00057	RDW	4,584	CH173426B	Oil/water	G3	10/7/2003	CHESI - Chicago
IL10705389	Х	00059	CHESI	5,113	CH173426B	Oil/water	G3	10/7/2003	CHESI - Chicago
IL10705445	Х	00060	CHESI	5,121	CH173426B	Oil/water	G3	10/7/2003	CHESI - Chicago
IL10705454	Χ	00062	RDW	4,584	CH173426B	Oil/water	G3	10/8/2003	CHESI - Chicago
IL10705478	Х	00064	CHESI	5,113	CH173426B	Oil/water	G3	10/8/2003	CHESI - Chicago
IL10705468	Χ	00065	CHESI	5,121	CH173426B	Oil/water	G3	10/8/2003	CHESI - Chicago
IL10705453	Х	00067	RDW	4,584	CH173426B	Oil/water	G3	10/9/2003	CHESI - Chicago
IL10705464	Х	00069	RDW	4,944	CH173426B	Oil/water	G3	10/9/2003	CHESI - Chicago
IL10705477	Х	00071	CHESI	5,121	CH173426B	Oil/water	G3	10/9/2003	CHESI - Chicago
IL10705458	Х	00072	RDW	4,555	CH173426B	Oil/water	G3	10/10/2003	CHESI - Chicago
IL10705469	Х	00073	CHESI	5,121	CH173426B	Oil/water	G3	10/10/2003	CHESI - Chicago
IL10705461	Х	00075	RDW	4,781	CH173426B	Oil/water	G3	10/13/2003	CHESI - Chicago
IL10705470	X	00076	CHESI	5,121	CH173426B	Oil/water	G3	10/13/2003	CHESI - Chicago
IL10705476	Х	00078	CHESI	5,121	CH173426B	Oil/water	G3	10/13/2003	CHESI - Chicago
IL10705459	X	08000	RDW	5,080	CH173426B	Oil/water	G3	10/14/2003	CHESI - Chicago
IL10705475	Х	00081	CHESI	5,025	CH173426B	Oil/water	G3	10/14/2003	CHESI - Chicago
IL10705474	Х	00083	CHESI	5,035	CH173426B	Oil/water	G3	10/14/2003	CHESI - Chicago
IL10705460	Х	00084	RDW	4,997	CH173426B	Oil/water	G3	10/15/2003	CHESI - Chicago
IL10705473	Х	00085	CHESI	4,020	CH173426B	Oil/water	G3/14	10/15/2003	CHESI - Chicago
IL10705487	X	00135	CHESI	5,072	CH173426B	Oil/water	G3	11/20/2003	CHESI - Chicago
IL10705488	X	00138	CHESI	1,535	CH173426B	Oil/water	14,18	12/1/2003	CHESI - Chicago
			TOTAL	302,670					
0.40000 0000		00000	OUES!	E 4 40	011470 1000	<u> </u>		0/00/2002	
040066-0029	X	00029	CHESI	5,146	CH173426B	Fuels	G5	9/29/2003	Energis / Holcim
040066-0026	X	00026	CHESI	5,479	CV000503 FB-2	Fuels	G2/G5	9/27/2003	Energis / Holcim
040066-0033	X	00033	CHESI	5,377	CV000503 FB-2	Fuels	G2/G5	9/30/2003	Energis / Holcim
040066-0034	Х	00034	CHESI	5,275	CV000503 FB-2	Fuels	G2/G5	9/30/2003	Energis / Holcim
040066-0036	X	00036	CHESI	5,381	CV000503 FB-2	Fuels	G2/G5	9/30/2003	Energis / Holcim
040066-0037	X	00037	CHESI	5,664	CV000503 FB-2	Fuels	G2/G5	10/1/2003	Energis / Holcim
040066-0038	Х	00038	CHESI	5,552	CV000503 FB-2	Fuels	G2/G5	10/1/2003	Energis / Holcim
040066-0041	X	00041	CHESI	5,289	CV000503 FB-2	Fuels	G2/G5	10/1/2003	Energis / Holcim

		Document No.	Transporter	Gallons	Profile No.	Waste Type	AST No.	Transport Date	Disposal Facility
040066-0042	X	00042	CHESI	5,351	CV000503 FB-2	Fuels	G5	10/1/2003	Energis / Holcim
040066-0044	Х	00044	CHESI	5,182	CV000503 FB-2	Fuels	G5/G2	10/1/2003	Energis / Holcim
040066-0045	X	00045	CHESI	5,265	CV000503 FB-2	Fuels	G5/G2	10/2/2003	Energis / Holcim
040066-0046	X	00046	CHESI	5,375	CV000503 FB-2	Fuels	G5/G2	10/2/2003	Energis / Holcim
040066-0049	X	00049	CHESI	5,209	CV000503 FB-2	Fuels	G5/G6	10/2/2003	Energis / Holcim
040066-0051	Х	00051	CHESI	5,082	CV000503 FB-2	Fuels	G2	10/3/2003	Energis / Holcim
040066-0052	X	00052	CHESI	5,218	CV000503 FB-2	Fuels	G2/G5	10/6/2003	Energis / Holcim
040066-0054	X	00054	CHESI	Rejected	CV000503 FB-2	Fuels	G5/G6	10/6/2003	Energis / Holcim
040066-0058	Χ	00058	CHESI	5,049	CV000503 FB-2	Fuels	G5	10/7/2003	Energis / Holcim
040066-0061	X	00061	CHESI	5,122	CV000503 FB-2	Fuels	B4	10/7/2003	Energis / Holcim
040066-0063	X	00063	CHESI	4,872	CV000503 FB-2	Fuels	G2/G6/B4/B2	10/8/2003	Energis / Holcim
040066-0066	X	00066	CHESI	5,277	CV000503 FB-2	Fuels	G2/B2	10/9/2003	Energis / Holcim
040066-0068	Х	00068	CHESI	4,629	CV000503 FB-2	Fuels	B2/G2	10/9/2003	Energis / Holcim
040066-0070	X	00070	CHESI	5,003	CV000503 FB-2	Fuels	G6/G2	10/9/2003	Energis / Holcim
040066-0074	X	00074	CHESI	4,330	CV000503 FB-2	Fuels	G5,G6,G2	10/10/2003	Energis / Holcim
040066-0077	X	00077	CHESI	5,496	CV000603-FB-3	Fuels	G9/G10	10/13/2003	Energis / Holcim
040066-0079	X	00079	CHESI	5,180	CV000603-FB-3	Fuels	G9/G10	10/14/2003	Energis / Holcim
040066-0082	X	00082	CHESI	4,597	CV000603-FB-3	Fuels	G9/G10	10/14/2003	Energis / Holcim
040066-0086	X	00086	CHESI	4,958	CV000603-FB-3	Fuels	G9/G10	10/15/2003	Energis / Holcim
040066-0087	X	00087	CHESI	5,496	CV000603-FB-3	Fuels	G9/G10	10/16/2003	Energis / Holcim
040066-0088	X	00088	CHESI	5,150	CV000603-FB-4	Fuels	G9/G11	10/16/2003	Energis / Holcim
040066-0089	X	00089	CHESI	5,182	CV000503 FB-2	Fuels	G6/G5	10/17/2003	Energis / Holcim
040066-0090	Х	00090	CHESI	5,012	CV000503 FB-2	Fuels	G6/G5	10/17/2003	Energis / Holcim
040066-0091	X	00091	CHESI	5,120	CV000503 FB-2	Fuels	G6/G11/B4	10/21/2003	Energis / Holcim
040066-0092	X	00092	CHESI	5,070	CV-0004-03 FB-1	Fuels	#13	10/21/2003	Energis / Holçim
040066-0094	X	00094	CHESI	5,431	CV-0004-03 FB-1	Fuels	#13	10/21/2003	Energis / Holcim
040066-0095	X	00095	CHESI	5,074	CV-0004-03 FB-1	Fuels	B1/G8	10/21/2003	Energis / Holcim
040066-0096	X	00096	CHESI	5,560	CV-0004-03 FB-1	Fuels	#12,#13	10/22/2003	Energis / Holcim
040066-0097	X	00097	CHESI	4,634	CV-0004-03 FB-1	Fuels	G8,B1	10/22/2003	Energis / Holcim
040066-0099	X	00099	CHESI	5,585	CV-0004-03 FB-1	Fuels	#13	10/23/2003	Energis / Holcim
040066-0100	Х	00100	CHESI	4,945	CV000603-FB-3	Fuels	G9/G10	10/23/2003	Energis / Holcim
040066-0102	X	00102	CHESI	5,267	CV000503 FB-2	Fuels	G5	10/24/2003	Energis / Holcim
040066-0104	Х	00105	CHESI	4,545	CV000503 FB-2	Fuels	G5	10/27/2003	Energis / Holcim
040066-0108	Х	00108	CHESI	5,223	CV000503 FB-2	Fuels	G5	10/28/2003	Energis / Holcim
040066-0109	X	00109	CHESI	4,128	CV000503 FB-2	Fuels	G5/#11	10/29/2003	Energis / Holcim
040066-0110	Х	00110	CHESI	5,189	CV-0004-03 FB-1	Fuels	#12	10/29/2003	Energis / Holcim

Manifest No.	Returned	Document No.	Transporter	Gallons	Profile No.	Waste Type	AST No.	Transport Date	Disposal Facility
040066-0112	Χ	00112	CHESI	5,264	CV000503 FB-2	Fuels	#11	10/29/2003	Energis / Holcim
040066-0113	X	00113	CHESI	3,913	CV000503 FB-2	Fuels	B3/B2	10/30/2003	Energis / Holcim
040066-0115	Χ	00115	CHESI	5,049	CV-0004-03 FB-1	Fuels	B1	10/31/2003	Energis / Holcim
040066-0119	X	00119	CHESI	4,850	CV-0004-03 FB-1	Fue <u>ls</u>	See note	11/4/2003	Energis / Holcim
040066-0123	Х	00123	CHESI	5,178	CV000503 FB-2	Fuels	G5/12	11/5/2003	Energis / Holcim
040066-0121	Х	00121	CHESI	3,070	CV-0017-03	Fuels	S3	11/5/2003	Energis / Holcim
			TOTAL	248,293					
IL10761858	X	00093	CHESI	5,366	CH173437B	F-Water	#G5	10/21/2003	CHESI - Chicago
IL10761856	Х	00098	CHESI	5,064	CH173437B	F-Water	#G5	10/23/2003	CHESI - Chicago
IL10705490	Х	00101	CHESI	5,670	CH173437B	F-Water	G5	10/23/2003	CHESI - Chicago
IL10705493	Х	00103	CHESI	5,100	CH173437B	F-Water	G5	10/27/2003	CHESI - Chicago
IL10705494	Х	00104	CHESI	5,903	CH173437B	F-Water	G5	10/27/2003	CHESI - Chicago
IL10705495	X	00106	CHESI	5,680	CH173437B	F-Water	G5	10/28/2003	CHESI - Chicago
IL10705496	Х	00107	CHESI	5,102	CH173437B	F-Water	G5	10/28/2003	CHESI - Chicago
IL10801165	X	00111	CHESI	<u>5,7</u> 10	CH173437B	F-Water	G5	10/29/2003	CHESI - Chicago
IL10801153	X	001 <u>16</u>	CHESI	4,796	CH173437B	F-Water	G5	10/31/2003	CHESI - Chicago
IL10801154	X	00117	CHESI	4,890	CH173437B	F-Water	G5	10/31/2003	CHESI - Chicago
IL10801166	X	00118	CHESI	4,997	CH173437B	F-Water	_ G5	11/3/2003	CHESI - Chicago
IL10705498	X	00120	CHESI	4,997	CH173437B	F-Water	G5	11/4/2003	CHESI - Chicago
IL10705497	X	00122	CHESI	5,050	CH173437B	F-Water	G5	11/5/2003	CHESI - Chicago
IL10761855	X	00124	CHESI	4,787	CH173437B	F-Water	G5	11/7/2003	CHESI - Chicago
IL10801116	X	00125	CHESI	5,202	CH173437B	F-Water	G5	11/10/2003	CHESI - Chicago
IL10801117	X	00126	CHESI	5 <u>,7</u> 50	CH173437B	F-Water	G5	11/10/2003	CHESI - Chicago
IL10801120	X	00128	CHESI	5,700	CH173437B	F-Water	G5	11/12/2003	CHESI - Chicago
			TOTAL	89,764				<u></u>	<u> </u>
			TOTAL	00,704				 	
IL10761843	X	00127	CHESI	5,525	CH213385B	Flam	S2	11/11/2003	CHESI - Chicago
IL10761844	Х	00129	CHESI	5,431	CH213385B	Flam	S2/S4	11/12/2003	CHESI - Chicago
IL10705427	Х	00132	CHESI	5,450	CH213385B	Flam	S4	11/19/2003	CHESI - Chicago
IL10801129	Х	00134	CHESI	4,700	CH213385B	Flam	51	11/20/2003	CHESI - Chicago
IL10801131	Х	00136	CHESI	4,759	CH213385B	Flam	S4/S5	11/21/2003	CHESI - Chicago
IL10801130	X	00137	CHESI	5,203	CH213385B	Flam		11/25/2003	CHESI - Chicago
IL10761854	Х	00140	CHESI	5,553	CH213385B	Flam	S5/53	12/3/2003	CHESI - Chicago

Manifest No.	Returned	Document No.	Transporter	Gallons	Profile No.	Waste Type	AST No.	Transport Date	Disposal Facility
···			TOTAL	36,621			·	<u> </u>	
IL10761857	X	00114	CHESI	3,841	CH173427B	Rec. Perc	#37	10/30/2003	CHESI - Chicago
IL10801113	X	00130	CHESI	5,800	CH173427B	Rec. Perc	\$1	11/17/2003	CHESI - Chicago
IL10801113	×		CHESI	4,305	CH173427B		37/33	11/18/2003	CHESI - Chicago
		00131				Rec. Perc			
IL10801114	X	00133	CHESI	4,835	CH173427B	Rec. Perc	33/37/\$1/46	11/19/2003	CHESI - Chicago
IL10801112	X	00139	CHESI	3,439	CH173427B	Rec. Perc	46/52	12/1/2003	CHESI - Chicago
			TOTAL	22,220					
						 			
IL10761853	X	00141	CHESI	5,202	CH173434B	Tank Bottoms	G9/G2	12/8/2003	CHESI - Chicago
IL10801148	X	00142	CHESI	5,000	CH173434B	Tank Bottoms	12-Nov	12/9/2003	CHESI - Chicago
IL10801147	Х	00143	CHESI	5,181	CH173434B	Tank Bottoms	S5/11/9/12	12/10/2003	CHESI - Chicago
IL10801149	Х	00144	CHESI	5,072	CH173434B	Tank Bottoms	R1	12/12/2003	CHESI - Chicago
IL10761850	Х	00145	CHESI	5,202	CH173434B	Tank Bottoms	G9/11/12/13	12/15/2003	CHESI - Chicago
IL10761851	Х	00146	CHESI	1,400	CH173434B	Tank Bottoms	R1/11/12/13	12/18/2003	CHESI - Chicago
IL1071852	Х	00147	CHESI	5,026	CH173434B	Tank Bottoms	11/12/13/R1/G9	12/18/2003	CHESI - Chicago
IL10777664	Х	00157	CHESI	1,807	CH173434B	Tank Bottoms		1/12/2004	CHESI - Chicago
			TOTAL	33,890		 			
									····
IL10789856	Х	00148	CHESI	390	CH173432	Drums	6	12/30/2003	CHESI - Chicago
IL10789848	Х	00149	CHESI	385	CH173433	Drums	7	12/30/2003	CHESI - Chicago
IL10691154	Х	00150	CHESI	242	Lab Pack	Drums	10	12/30/2003	CHESI - Chicago
IL10789851	Х	00151	CHESI	575	CH213386	Drums	9	12/30/2003	CHESI - Chicago
IL10789849	Х	00152	CHESI	470	CH213390	Drums	8	12/30/2003	CHESI - Chicago
IL10789854	Х	00153	CHESI	330	CH173431	Drums	6	12/30/2003	CHESI - Chicago
IL10789857	Х	00154	CHESI	715	CH173432	Drums	13	1/9/2004	CHESI - Chicago
IL10789859	X	00155	CHESI	1,155	CH173437B	Drums	21	1/9/2004	CHESI - Chicago
IL10789863	X	00156	CHESI	1,530	CH213390	Drums	25	1/9/2004	CHESI - Chicago
IL10801092	Х	00158	CHESI	300	CH213389	Drums	6	1/14/2004	CHESI - Chicago
IL10801090	Х	00159	CHESI	360	CH213396	Drums	6	1/14/2004	CHESI - Chicago
IL10801091	х	00160	CHESI	335	CH213388	Drums	7	1/14/2004	CHESI - Chicago
IL1080189	Х	00161	CHESI	55	CH213390	Drums	1	1/14/2004	CHESI - Chicago

Manifest No.	Returned	Document No.	Transporter	Gallons	Profile No.	Waste Type	AST No.	Transport Date	Disposal Facility
			TOTAL	6,842					
040066-0162	X	00162	CHESI	3,816	PQ-040401_009-C	Crude Oil	G-4	4/12/2004	Energis/Holcim
040066-0163	Х	00163	CHESI	3,890	PQ-040401_009-C	Crude Oil	G-4	4/14/2004	Energis/Holcim
040066-0164	Х	00164	CHESI	3,974	PQ-040401_009-C	Crude Oil	G-4	4/16/2004	Energis/Holcim
040066-0165	Х	00165	CHESI	4,482	PQ-040401_009-C	Crude Oil	G-4	4/19/2004	Energis/Holcim
040066-0166	Х	00166	CHESI	2,391	PQ-040401_009-C	Crude Oil	G-4	4/20/2004	Energis/Holcim
040066-0167	X	00167	CHESI	2,349	PQ-040401_009-C	Crude Oil	G-4	4/21/2004	Energis/Holcim
040066-0168	Х	00168	CHESI	3,354	PQ-040401_009-C	Crude Oil	G-4	4/22/2004	Energis/Holcim
040066-0169	Х	00169	CHESI	2,157	PQ-040401_009-C	Crude Oil	G-4	4/21/2004	Energis/Holcim
040066-0170	Х	00170	CHESI	4,192	PQ-040401_009-C	Crude Oil	G-4	4/27/2004	Energis/Holcim
040066-0171	Х	00171	CHESI	2,943	PQ-040401_009-C	Crude Oil	G-4	4/28/2004	Energis/Holcim
040066-0172	X	00172	CHESI	2,779	PQ-040401_009-C	Crude Oil	G-4	4/29/2004	Energis/Holcim
040066-0173	Х	00173	CHESI	3,599	PQ-040401_009-C	Crude Oil	G-4	4/30/2004	Energis/Holcim
040066-0174	X	00174	CHESI	3,368	PQ-040401_009-C	Crude Oil	G-4	5/3/2004	Energis/Holcim
040066-0175	X	00175	CHESI	3,382	PQ-040401_009-C	Crude Oil	G-4	5/4/2004	Energis/Holcim
040066-0176	X	00176	CHESI	2,358	PQ-040401_009-C	Crude Oil	G-4	5/5/2004	Energis/Holcim
040066-0177	X	00177	CHESI	3,538	PQ-040401_009-C	Crude Oil	G-4	5/6/2004	Energis/Holcim
040066-0178	Х	00178	CHESI	2,757	PQ-040401_009-C	Crude Oil	G-4	5/7/2004	Energis/Holcim
040066-0179	X	00179	CHESI	5,323	PQ-040401_009-C	Crude Oil	G-4	5/10/2004	Energis/Holcim
040066-0180	X	00180	CHESI	3,269	PQ-040401_009-C	Crude Oil	G-4	5/11/2004	Energis/Holcim
040066-0181		00181	CHESI	4,380	PQ-040401_009-C	Crude Oil	G-4	5/12/2004	Energis/Holcim
040066-0182		00182*	CHESI	2,284	PQ-040401_009-C	Crude Oil	G-4	5/14/2004	Energis/Holcim
	<u> </u>		TOTAL	70,585				 	

804,043 Total AST Liquid Waste Volume 6,842 Total Drum Liquid Waste Volume 810,885 Total Liquid Waste Volume

 ${\it CHESI = Clean \; Harbors \; Environmental \; Services, \; Inc.}$

Rec. Perc = Recovered perchloroethylene

F-Water = F-listed wastewater